RECIPROCATING

AIR COMPRESSORS

The reciprocati ng a ir compressors from ELG a re the backbone of varied industrial a ppl ications. Our range of reciproc a ti ng compressors offers cost-effective, long-lasting compressed air solutions, ma king them the best compressor for lig ht to heavy- duty industr ial a pplicat ions.

ALJ lull NIUt•1 COAXI AL RECIPROCATI NG AIR COIll PRESSORS

1-2 HP SINGLE-STAGE DIRECT DRIVE PISTON COMPRESSORS

E LG i's s in g l e-sta ge reci p rOca ti nq a ir cO m p re ssors O ffe r su p er i O r
pe rfO r m a n ce via l he u ni q ue l y' in teg ra ie d de s i g n OF th e m OtO r a nd lO p blOc k. Mac h cO m p O n enl OF Ou r p is to n ai r cO m p ress O r is d esi g n ed fO r re l ia b il ity' a nd ea se Of m a in te n an ce, ma ki n g th em th e b es l i nd u stria l a ir cO m p re ssO r lO r c u s LO m ers w'h O requ ire cO m p re ssed a ir lO r l i g h L-du ty' a ppl i ca Ion s.

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CAST BELT DRIVE N RECI PROCAT ING AIR COMPRESSORS 1-3 HP

1-3 HP SINGLE-STAGE BELT DRIVE PISTON COMPRESSORS

ELGi% simple-sta‹je belt-d rive reciprocating compressors are designed for continuous-duty apptication5. Our sim te stage reciprocatin g compressors are retiabte workhorses that can generate up to lO bar g pressure. nna king them the best industria t air compressor for general enqineerinq and automotive industrial apphcations.

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INDUSTRIAL, CAST IOON RECIP LOCATING AIR CG¥•gPRESSORS 3-40 I-\P

3-40 HP SINGLE & TWO STAGE INDUSTRIAL PISTON COMPRESSORS

ELG11ndustria I single and two-stage reciprocating air compressors are known for thelr rel1ab1lity and performance. Our air compressors are designed for optimum effi ciency while requ1ring minimum maintenance to meet compressed alr needs, mak1ng them the best industrial air compressors for various 1ndustria l applications. Our two- stage reciprocating compressors are used to maintain higher pressure in compressed air.

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HIGH PRESSURE RECIPROCATING AIR COMPRESSORS 3-20 HP / UPTO 60 BAR

3-20 HP HIGH PRESSURE RECIPROCATING AIR COMPRESSORS

ELGi's robust three-stage high-pressure p1ston compressors come w1th suct1on loaders and double poly v belts that make them highly effic1ent. These industrial reciprocating compressors are ideal for pet blowing, eng1ne sta rt1ng, circuit breakers and marine appl1cations.

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CUSTOM BUILT COMPRESSORS

ELG1 manufactures custom-built compressors for varied applications including mining, diesel eng ine starting, hydel and concrete pumps.

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WORKING PRINCIPLE OF A RECIPROCATING COMPRESSOR

The reciprocating air compressor operates on the principle of reciprocation, where a piston inside a cylinder moves back and forth to compress the air. During the imake nroke, the ,Alston dow ward, eating lon-pressure erivirori ant withir' the 'finder which draws through the intake vak'e. As the ,Alston ascends,

the air is compressed, reducing its volume and dramatically increasing its pressure. Once the desired pressure is reached, the discharge valve opens, and the compressed air is forced out of the cylinder into an air receiver or sto+age tank. The piston then completes the cycle by moving d‹>w'nward again to expel any remaining air. This process continues repetitively, allowing the piston compressor to provide a stoady supply of compressed air for a wide range of applications, from p‹>wering pneumatic tools to supporting various industrial prooe

BENEFITS OF RECIPROCATING COIdPRESSORS

Vérsatilhyt Reciprc<ating air compresso+s are versatile and can be used in a wide range of applications, from small-scale tasks like powering pneumatic tools to larger indunrial processes

High Pressure Capabilhyt The reciprocating/piston compressors can produce high-pressure output, matting them suitable for applications requiring substantial air

Corr ¥ect Design: Reciprocating compressors come in various sizes, and their compact design allows for easy installation, euen in limited s p a n

Efficiency: These compressors can operate efficiently when properly maintained, providing a coct-effocttue solution for compressed air r+eeda

Durabilityt \ nh lower moving parts and a robust c/esign, reciprocating air compressors are durable and reliable, especially when used within their capacity limits

Easy ¥dafntenanoes Routir+e maintenance tasks, such as oil changes and filter replacements, are relatively simple and can exLend the compressor's life.

LOOKING TO BUY A **RECIPROCATING COMPRESSOR?**

Get Expert Guidance and Personalized Solutions

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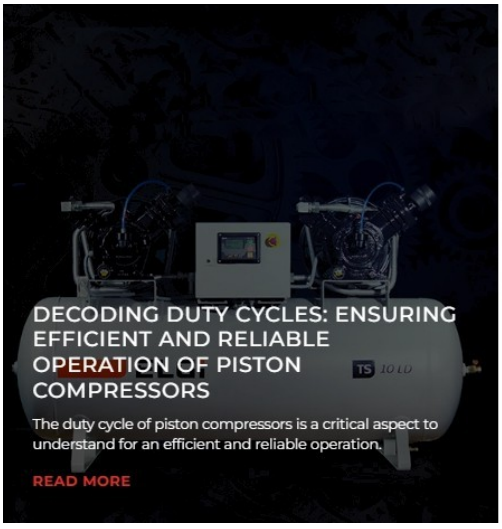
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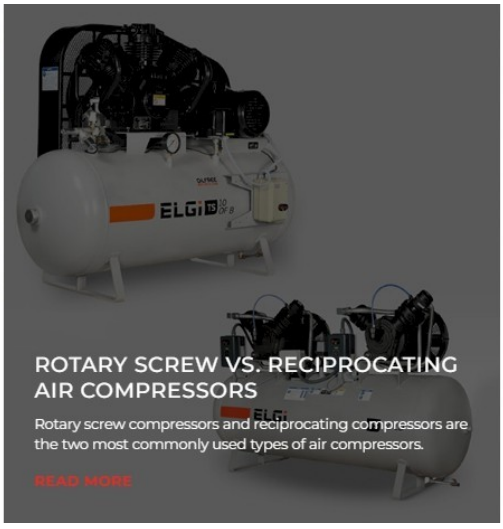
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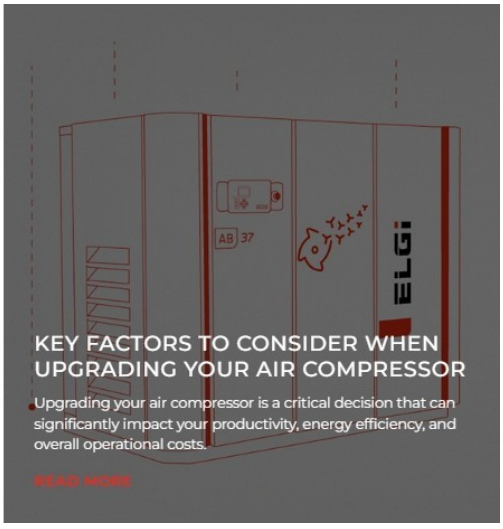
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FREQUENTLY ASKED QUESTIONS (FAQs)

What are the advantages of using water-injected air compressors in various applications?

In the case of water-injected air compressors, the heat dissipation is managed through a closed-loop water cooling system. This eliminates the need for lubricating oil, which is hazardous for the environment if disposed of after its duty cycle. Absence of oil ensures a 100% oil free compressed air at the discharge outlet.

0 What are øil-free air compressors, and how do tney differ Tom øil-lubricant models?

0 3. What industries commonly use oil-free screw compressors?

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